

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2000	
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0207136F Manned Destructive Suppression				PROJECT 674595	
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
674595 F-16 HARM Targeting System (HTS)	1,663	3,363	14,670	22,113	23,789	14,559	9,597	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0
<p>(U) <u>A. Mission Description</u> The overall Manned Destructive Suppression (MDS) program funds the development, procurement, and sustainment of the Air Force's lethal Suppression of Enemy Air Defenses (SEAD) capability. The program provides F-16 Block 50/52 aircraft with the ability to employ the AN/ASQ-213 HARM Targeting System (HTS). F-16 HTS is the only currently programmed reactive SEAD capability and enables targeting the HARM missile in the most lethal 'range known' mode. This RDT&E effort continues HTS preplanned product improvement (P3I). In FY00 the HTS P3I program began development of the HTS Revision 7 (R7) upgrade. In FY01 effort will begin to develop HTS engineering changes needed to permit the F-16 to carry both an HTS pod and an advanced targeting pod (TGP). These HTS improvements represent the Air Force's near-term solution (until replaced by JSF) for Destruction of Enemy Air Defenses (DEAD) mission. R7/alternate/dual carriage will allow targeting of the Joint Standoff Weapon (JSOW) and potentially targeting of other precision guided munitions (PGMs) needed to destroy fixed and mobile enemy air defense system elements. R7 derived coordinates of threat emitters will be available to all Joint Forces via Link-16.</p>									
<p>(U) <u>FY 1999 (\$ in Thousands)</u></p> <p>(U) \$513 Complete HTS R6 development (includes Air Force Mission Support System (AFMSS) modifications)</p> <p>(U) \$1,117 Continued HTS Test and Evaluation</p> <p>(U) \$33 Continued Mission Support</p> <p>(U) \$1,663 Total</p>									
<p>(U) <u>FY 2000 (\$ in Thousands)</u></p> <p>(U) \$2,661 Initiate HTS R7 Geolocation Upgrade Program Definition study & Risk Reduction (PDRR)</p> <p>(U) \$702 Continue Mission Support</p> <p>(U) \$3,363 Total</p>									
<p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <p>(U) \$1,300 Complete HTS R7 Geolocation Upgrade Program Definition study & Risk Reduction (PDRR)</p> <p>(U) \$11,520 Continue R7 Geolocation Development (Includes HTS/TGP Dual Carriage)</p> <p>(U) \$150 Initiate R7 Upgrade Test and Evaluation</p> <p>(U) \$1,700 Continue Mission Support</p>									
<p>Project 674595</p>									

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2000

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

07 - Operational System Development

0207136F Manned Destructive Suppression

674595

(U) A. Mission Description Continued(U) FY 2001 (\$ in Thousands) Continued

(U) \$14,670 Total

(U) B. Budget Activity Justification

This PE is in Budget Activity 7 - Operational System Development because it supports preplanned product improvements and upgrade development of F-16 HTS, a fielded system.

(U) C. Program Change Summary (\$ in Thousands)

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 2000 PBR)	2,392	5,402	1,472	67,370
(U) Appropriated Value	2,443	3,402		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-44			
b. Small Business Innovative Research	-5			
c. Omnibus or Other Above Threshold Reprogram		-18		
d. Below Threshold Reprogram	-715			
e. Rescissions	-16	-21		
f. Other				
(U) Adjustments to Budget Years Since FY 2000 PBR			13,198	
(U) Current Budget Submit/FY 2001 PBR	1,663	3,363	14,670	TBD

(U) Significant Program Changes:

Funding was added in FY 2001 (\$13.2M) and in out-years to continue R7 upgrade development. R7 effort will focus on developing a HTS precision geolocation targeting capability and moving HTS pod location to allow carriage of advanced targeting pods on the F-16 Block 50/52 aircraft along with HTS. R7 will provide coordinates of threat emitters to the Joint Forces, enabling destruction of enemy air defense elements using JSOW or other precision guided munitions. Completion of R6 upgrade development and initial deployment has slipped into FY2000 due to software problems discovered during testing.

Project 674595

Page 2 of 5 Pages

Exhibit R-2 (PE 0207136F)

1076

UNCLASSIFIED

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)							DATE February 2000	
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0207136F Manned Destructive Suppression			PROJECT 674595	
(U) <u>D. Other Program Funding Summary (\$ in Thousands)</u>								
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>
(U) AF RDT&E								
(U) Other APPN								
(U) HTS Aircraft Procurement (BP11)AF PE 0207136F	1,723					10,447	9,878	Continuing
(U) HTS Aircraft Procurement (BP19)AF PE 0207136F	12,180		13,653		3,547			Continuing
(U) <u>E. Acquisition Strategy</u>								
The HTS program objective is to develop precision geolocation capability that significantly improves speed and accuracy of emitter targeting solutions on F-16 Block 50/52 aircraft. Precision geolocation capability will permit targeting of PGMs such as JSOW, in addition to the HARM missile, against mobile and fixed sites. The objective will be accomplished through study, risk reduction, and EMD efforts that significantly upgrade and increase the F-16's and Joint Forces real-time Destruction of Enemy Air Defenses (DEAD) capabilities.								
(U) <u>F. Schedule Profile</u>								
		<u>FY 1999</u>				<u>FY 2000</u>		<u>FY 2001</u>
	1	2	3	4	1	2	3	4
(U) Complete F-16 HTS R6 Upgrade Development						X		
(U) Continue F-16 HTS R7 Development					*			
(U) Award Contract for R7 PDRR						X		
(U) New Buy Lot 2 Contract Award	*							
(U) New Buy Lot 2 Pod Deliveries (16 Pods)							X	X
(U) New Buy Lot 3 Contract Award				*				
(U) New Buy Lot 3 Pod Deliveries (13 Pods)							X	X
(U) R6 Fielding						X	X	
* = Completed Event X = Planned Event								
Project 674595								
Page 3 of 5 Pages								
Exhibit R-2 (PE 0207136F)								

UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2000		
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT	
07 - Operational System Development					0207136F Manned Destructive Suppression				674595	
(U) A. Project Cost Breakdown (\$ in Thousands)										
					FY 1999		FY 2000		FY 2001	
(U) HTS R7Program Definition study and Risk Reduction (PDRR)							2,661		1,300	
(U) R7 Geolocation Dev (Includes HTS/TGP Dual Carriage)									11,520	
(U) Test & Evaluation					1,117				150	
(U) HTS R6 (Includes AFMSS)					513					
(U) Mission Support					33		702		1,700	
(U) Total					1,663		3,363		14,670	
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)										
(U) Performing Organizations:										
<u>Contractor or</u>		<u>Contract</u>								
<u>Government</u>		<u>Method/Type</u>		<u>Award or</u>		<u>Performing</u>		<u>Project</u>		
<u>Performing</u>		<u>or Funding</u>		<u>Obligation</u>		<u>Activity</u>		<u>Office</u>		<u>Total Prior</u>
<u>Activity</u>		<u>Vehicle</u>		<u>Date</u>		<u>EAC</u>		<u>EAC</u>		<u>to FY 1999</u>
								<u>Budget</u>		<u>Budget</u>
								<u>FY 1999</u>		<u>FY 2000</u>
								<u>FY 2001</u>		<u>Budget to</u>
								<u>Complete</u>		<u>Total</u>
										<u>Program</u>
<u>Product Development Organizations</u>										
Raytheon Systems Co.		SS/Various		Various		6,808		6,808		6,808
Raytheon Systems Co.		SS/CPAF		Feb 96		30,931		30,931		30,931
AFMSS		SS/CPIF		Various				1,772		113
Lockheed/Ft Worth		SS/FFP		Various		2,400		2,400		2,400
<u>Support and Management Organizations</u>										
Prog. Mgt. and Mission Support		Various		Various				3,950		33
								702		1,700
								Continuing		TBD
<u>Test and Evaluation Organizations</u>										
Eglin		PO		Various				1,867		308
Edwards		PO		Various				3,585		809
Light Defender				Various				922		0
								0		0
								0		0

Project 674595

Page 4 of 5 Pages

Exhibit R-3 (PE 0207136F)

Project 674595

Page 4 of 5 Pages

Exhibit R-3 (PE 0207136F)

UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000	
BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT	
07 - Operational System Development				0207136F Manned Destructive Suppression			674595	
(U) Government Furnished Property:								
	<u>Contract</u>							
	<u>Method/Type</u>	<u>Award or</u>						
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>	<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>
<u>Product Development Property</u>								
Not Applicable								
<u>Support and Management Property</u>								
Not Applicable								
<u>Test and Evaluation Property</u>								
Not Applicable								
				<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
				<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>
<u>Subtotals</u>								<u>Total</u>
Subtotal Product Development				41,911	513	2,661	12,820	TBD
Subtotal Support and Management				3,950	33	702	1,700	TBD
Subtotal Test and Evaluation				6,374	1,117	0	150	TBD
Total Project				52,235	1,663	3,363	14,670	TBD

Project 674595

Page 5 of 5 Pages

Exhibit R-3 (PE 0207136F)